

ABSTRACT OF DISCLOSURE

The invention relates to a device to filter and damp the vibrations between a first element ~~(1)~~—subjected to an incident vibratory wave and a second element ~~(2)~~—radiating a filtered vibratory wave

This device comprises an interface structure ~~(10)~~—to transfer vibratory energy constituted by at least one elastic component ~~(1)~~—and at least one dissipative component ~~(7)~~ attached in parallel to the elastic component to ensure the filtration and damping of the incident vibratory wave, the dissipative component ~~(7)~~—being constituted by two separate rigid frames ~~(4, 5)~~—ensuring, punctually or continuously, deflection functions, if required, by a lever arm effect, amplification of the vibratory energies generated by the elastic components ~~(1)~~—towards a dissipative material ~~(6)~~ positioned between them, said dissipative component ~~(6)~~ providing damping for the elastic component.